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Thermo Field Dynamics and Condensed States

by H. UMEZAWA *and* H. MATSUMOTO, *University of Alberta, Edmonton, Canada and* M. TACHIKI, *Tohoku University, Sendai, Japan*

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In this book quantum field theory at finite temperature is formulated so that it can deal with ordered states of many body systems in which many kinds of extended topological objects are created and interact with quanta. By providing a consistent scheme for macroscopic objects coexisting with quanta, this formalism presents a unified view of classical, quantum mechanical and quantum field theoretical objects.

The temperature effect is introduced, not through the Green's function formalism only, but through the entire structure of the quantum field theory. Thus, the formalism has a wider range of applications and many practical calculations are simplified. A variety of practically useful techniques for analysis of the systems of ordered states with or without macroscopic topological objects is presented as well as a clear perspective over many areas of physics such as solid state physics, cosmology and high energy particle physics.

This publication will prove particularly useful to solid state physicists who want to learn quantum field theory (at finite temperature) in its entirety and to high energy physicists and cosmologists who are interested in many-body-problems. It will also be suitable for a graduate course for students with an introductory knowledge of quantum field theory.

CONTENTS: Preface. *Chapters:* 1. Introduction. 2. Quantum Theory for Many Body Systems. 3. The Physical Particle Representation, the S-Matrix and Composite Particles. 4. Quantum Field Theory at Finite Temperature. 5. Some Examples of Thermo-Field Dynamical Computations. 6. Invariance and the Noether Current. 7. The Dynamical Rearrangement of Symmetries and the Dynamical Map. 8. Quantum Electrodynamics in Solids I: Rearrangement of Gauge Symmetry and the Dynamical Map. 9. Extended Objects of Quantum Origin. 10. Extended Objects with Topological Singularities. 11. Quantum Electrodynamics in Solids II: Macroscopic Phenomena. 12. Surface Boundary Phenomena. 13. Concluding Remarks.

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Topics in Ocean Physics

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In the Summer of 1980, the International School of Physics "Enrico Fermi" presented for the first time a course in the field of physical oceanography: Topics in Ocean Physics. Presented to a selected group of young scientists, many of whom had formal training in elementary practicle and atomic physics, a major goal of the course was to introduce to the participating students a selected set of interesting and exciting high-level topics in ocean physics, thereby attempting to draw them from other physical disciplines into the field of physical oceanography. A second objective was to provide some basis for the selection of a suitable topic for students who had recently decided to become involved in the field of ocean physics, a discipline which due to many recent economic and environmental reasons has become a vital area of research for Mediterranean countries.

Since a broad panorama of the field was neither possible nor desirable, focus was put on several restricted topics; 1) the dynamics of mesoscale and large-scale flows, 2) nonlinear wave mechanics, 3) mixed-layer physics, and, 4) linear models of ocean surface waves. This book is thus divided into four parts. Part I contains papers on the dynamics of large-scale and mesoscale motions while part II contains contributions regarding recent advances in the field of nonlinear wave mechanics. In part III a review is presented of recent observations of the physical processes of mixed-layer formation in the upper ocean during storms and the final part attempts to give some perspective on the recent trend towards describing unknown effects in ocean wave systems by nonlinearities, i.e. this section is devoted entirely to linear wave models.

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